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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/827,278	04/04/2001	Robert S. Beach	SJO919990038US2	6618	
33224 7590 02/05/2008 INTERNATIONAL BUSINESS MACHINES CORPORATION			EXAMINER		
650 Harry Roa	650 Harry Road, L2PA/J2C			EVANS, JEFFERSON A	
INTELLECTU SAN JOSE, C	UAL PROPERTY LAW CA 95120-6099		ART UNIT	PAPER NUMBER	
2.1.			2627		
				-	
	•		MAIL DATE	DELIVERY MODE	
			02/05/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/827,278	BEACH, ROBERT S.				
Office Action Summary	Examiner	Art Unit				
	Jefferson Evans	2627				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
·— · · · · · · · · · · · · · · · · · ·	Responsive to communication(s) filed on <u>15 November 2007</u> .					
,						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,3 and 13-24</u> is/are pending in the application.						
4a) Of the above claim(s) <u>20-24</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3,4,11,13 and 14</u> is/are rejected.						
7) Claim(s) <u>1, 3-11, and 13-19</u> is/are objected to.	·					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	ır.	•				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
dee the attached detailed Office action for a list	of the defined copies not receive					
Attachment(s)	,					
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F					

Application/Control Number:

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Claims 1, 3-11, and 13-24 are pending.

Claims 20-24 have been withdrawn from consideration as being non-elected.

Claim Objections

1. Claims 1, 3-11, and 13-19 are objected to because of the following informalities: claims 1 – lines 2 and 3 and claim 11 – line 4, "a first and second layer" should be changed to -- first and second layers".

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 3, 4, 11, 13, 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Gill et al (U.S. 5,701,222). Note figure 9 which shows an AFM layer 137 between first and second layers 135,139 such that the AFM pins the first and second layers and the magnetization directions of the first and second layers are antiparallel as shown by arrows 134,136.

Allowable Subject Matter

4. Claims 5-10 and 15-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson Evans whose telephone number is 571-272-7574. The examiner can normally be reached on weekdays, noon to 7:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Thi Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

February 3, 2008

Jefferson Evans Primary Examiner Art Unit 2627

> JEFFERSON EVANS PRIMARY EXAMINER